



CLAIMS:

1. A high-pressure gas discharge lamp (1) comprising:
a quartz glass lamp vessel (2) which is closed in a gastight manner, with a
space (4) which is enclosed by a wall (3) and in which a pair of electrodes (5) is arranged;
an outer surface (15) of said wall (3) extending between the pair of electrodes
(5); and
a filling provided in the space (4) and comprising a rare gas and halides of tin
and indium,
characterized in that the wall (3) has a wall load of at least 30 W/cm^2 at its
outer surface, and in that the filling comprises an alkali metal halide with at least one alkali
ion and at least one halide ion, said alkali ion being chosen from the group formed by
potassium, rubidium, and cesium, and the halide ion being chosen from the group formed by
chlorine, bromine, and iodine.
2. A high-pressure gas discharge lamp as claimed in claim 1, characterized in
that the lamp (1) has a discharge arc (12) with a length of at most 10 mm.
3. A high-pressure gas discharge lamp as claimed in claim 1 ~~or 2~~, characterized
in that the alkali ion is potassium.
4. A high-pressure gas discharge lamp as claimed in claim 1, ~~2, or 3~~,
characterized in that the halide ion is bromine.
5. A high-pressure gas discharge lamp as claimed in claim 1, ~~2, 3, or 4~~,
characterized in that the high-pressure gas discharge lamp (1) comprises a reflector (9) in
which the lamp vessel (2) is fixed.
6. A high-pressure gas discharge lamp as claimed in claim 1, ~~2, 3, 4, or 5~~,
characterized in that the high-pressure gas discharge lamp (1) is a DC lamp.